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**ABSTRACT****METHOD AND APPARATUS FOR DISTRIBUTING TIMING DATA ACROSS A PACKET NETWORK**

A method of distributing timing information across a packet network 7. The method comprises generating timing signals at a master clock 8 at predictable intervals using a clock reference of a given frequency. The timing signals are broadcast or multicast to a plurality of slave clocks 9 over said packet network 7, preserving the timing signal intervals. At each said slave clock 9, the intervals between successively received timing signals are determined. A clock recovery algorithm is applied to said determined intervals to recover in substantially real time the original clock frequency. The local clock frequency of the slave clock is synchronised to the recovered frequency.